

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/580,556
Source: IFWP
Date Processed by STIC: 06/07/2006

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 06/07/2006
 PATENT APPLICATION: US/10/580,556 TIME: 10:55:32

Input Set : A:\Sequence Listing_4240-142.ST25.txt
 Output Set: N:\CRF4\06072006\J580556.raw

3 <110> APPLICANT: Korea Advanced Institute of Science and Technology
 4 LEE, Sang Yup
 5 LEE, Sang Jun
 7 <120> TITLE OF INVENTION: NOVEL RUMEN BACTERIA VARIANTS AND PROCESS FOR PREPARING
 SUCCINIC
 8 ACID EMPLOYING THE SAME
 10 <130> FILE REFERENCE: 4240-142
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/580,556
 13 <141> CURRENT FILING DATE: 2006-05-26
 15 <150> PRIOR APPLICATION NUMBER: PCT/KR2004/001210
 16 <151> PRIOR FILING DATE: 2004-05-20
 18 <150> PRIOR APPLICATION NUMBER: KR 10-2003-0084934
 19 <151> PRIOR FILING DATE: 2003-11-27
 21 <150> PRIOR APPLICATION NUMBER: KR 10-2004-0028105
 22 <151> PRIOR FILING DATE: 2004-04-23
 24 <160> NUMBER OF SEQ ID NOS: 37
 26 <170> SOFTWARE: PatentIn version 3.3
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 30
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Artificial
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Primer LS1
 36 <400> SEQUENCE: 1
 37 cagtgaagga gctccgtaac gcatccgccg 30
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 30
 42 <212> TYPE: DNA
 43 <213> ORGANISM: Artificial
 45 <220> FEATURE:
 46 <223> OTHER INFORMATION: Primer LP1
 48 <400> SEQUENCE: 2
 49 ctttatcgaa tctgcaggcg gtttccaaaa 30
 52 <210> SEQ ID NO: 3
 53 <211> LENGTH: 30
 54 <212> TYPE: DNA
 55 <213> ORGANISM: Artificial
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: Primer LP2
 60 <400> SEQUENCE: 3
 61 gtactgtaaa ctgcagcttt catagtttagc 30
 64 <210> SEQ ID NO: 4
 65 <211> LENGTH: 30
 66 <212> TYPE: DNA

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69 <220> FEATURE:
70 <223> OTHER INFORMATION: Primer LH2
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76 <210> SEQ ID NO: 5
77 <211> LENGTH: 10
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Linker 1
84 <400> SEQUENCE: 5
85 tctagaagct          10
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 29
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Primer SXF
96 <400> SEQUENCE: 6
97 gctctagacc ttctatcgcc ttcttgacg          29
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 29
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Primer SXR
108 <400> SEQUENCE: 7
109 gctctagagg ctacaaaatc acggg'gcgc          29
112 <210> SEQ ID NO: 8
113 <211> LENGTH: 30
114 <212> TYPE: DNA
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117 <220> FEATURE:
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121 agcggatccc cttctatcgc cttcttgacg          30
124 <210> SEQ ID NO: 9
125 <211> LENGTH: 30
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Primer SPR
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144 <400> SEQUENCE: 10
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149 <211> LENGTH: 30
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Primer PB2
156 <400> SEQUENCE: 11
157 caaggatcca acggataaag cttttattat 30
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161 <211> LENGTH: 30
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Primer CTR
168 <400> SEQUENCE: 12
169 ctcgagcccg ggggtttaagg gcaccaataa 30
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173 <211> LENGTH: 30
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Primer CTF
180 <400> SEQUENCE: 13
181 ctcgagcccc gggctttgcg ccgaataaat 30
184 <210> SEQ ID NO: 14
185 <211> LENGTH: 22
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Primer KM1
192 <400> SEQUENCE: 14
193 gacgtttccc gttgaatatg gc 22
196 <210> SEQ ID NO: 15
197 <211> LENGTH: 24
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Primer LU1
204 <400> SEQUENCE: 15
205 cattgaggcg tattatcagg aaac 24
208 <210> SEQ ID NO: 16
209 <211> LENGTH: 23
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial
213 <220> FEATURE:

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223 <213> ORGANISM: Artificial
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Primer LD2
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232 <210> SEQ ID NO: 18
233 <211> LENGTH: 30
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Primer CM1
240 <400> SEQUENCE: 18
241 ggtggtatat ccagtgattt ttttctccat                               30
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245 <211> LENGTH: 28
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Primer PU1
252 <400> SEQUENCE: 19
253 ctttgcaaca ttatggtatg tattgccg                                   28
256 <210> SEQ ID NO: 20
257 <211> LENGTH: 30
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Primer CM2
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269 <211> LENGTH: 26
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Primer PD2
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281 <211> LENGTH: 32
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial
285 <220> FEATURE:
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289 gctctagata tccgcagtat cacttttctgc gc 32
292 <210> SEQ ID NO: 23
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294 <212> TYPE: DNA
295 <213> ORGANISM: Artificial
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Primer
300 <400> SEQUENCE: 23
301 tccgcagtcg gatccgggtt aaccgcacag 30
304 <210> SEQ ID NO: 24
305 <211> LENGTH: 39
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Primer
312 <400> SEQUENCE: 24
313 ggggagctcg ctaacttagc ttctaaaggc catgtttcc 39
316 <210> SEQ ID NO: 25
317 <211> LENGTH: 32
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Primer
324 <400> SEQUENCE: 25
325 gctctagata tccgggtcaa tatcgccgca ac 32
328 <210> SEQ ID NO: 26
329 <211> LENGTH: 30
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Primer
336 <400> SEQUENCE: 26
337 gaattcgagc tcgcccgggg atcgatcctc 30
340 <210> SEQ ID NO: 27
341 <211> LENGTH: 36
342 <212> TYPE: DNA
343 <213> ORGANISM: Artificial
345 <220> FEATURE:
346 <223> OTHER INFORMATION: Primer
348 <400> SEQUENCE: 27
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353 <211> LENGTH: 32
354 <212> TYPE: DNA
355 <213> ORGANISM: Artificial
357 <220> FEATURE:
358 <223> OTHER INFORMATION: Primer
360 <400> SEQUENCE: 28

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27

Seq#:28,29,30,31,32,33,34,35,36,37

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L:12 M:270 C: Current Application Number differs, Replaced Current Application Number